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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/882,530	06/15/2001	Derrick A. Richardson	485772003600	9930	
75	90 12/31/2002				
Rimas Lukas			EXAMINER		
P.O. Box 3295			LEWIS, PATRICK T		
Half Moon Bay	, CA 94019			·	
			ART UNIT	PAPER NUMBER	
		•	1623		
			DATE MAILED: 12/31/2002	9	

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del> i		Application No.	Applicant(s)		
		09/882,530	RICHARDSON ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Patrick T. Lewis	1623		
Period fo	The MAILING DATE of this communication app	pears on the cover sheet	with the correspondence address		
A SH THE	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1				
- If the - If NO - Failu - Any	SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply D period for reply is specified above, the maximum statuory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	will apply and will expire SIX (6) No. , cause the application to become	MONTHS from the mailing date of this communication. e ABANDONED (35 U.S.C. § 133).		
Status					
1)🛛	Responsive to communication(s) filed on 21 (	<u> October 2002</u> .			
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.			
3)	Since this application is in condition for allows closed in accordance with the practice under				
·	ion of Claims				
,—	Claim(s) <u>1-25</u> is/are pending in the application				
	4a) Of the above claim(s) <u>24 and 25</u> is/are with	drawn from considerati	OII.		
,	Claim(s) is/are allowed.	raigated			
·	Claim(s) <u>1-5,12,13,15,16,18-20 and 22</u> is/are r				
•	Claim(s) <u>6-11,14,17,21 and 23</u> is/are objected		·		
	Claim(s) are subject to restriction and/o ion Papers	r election requirement.			
	The specification is objected to by the Examine	r			
•—	The drawing(s) filed on is/are: a) ☐ accept		ov the Examiner		
,	Applicant may not request that any objection to the				
11)	The proposed drawing correction filed on	=			
<i>,</i> —	If approved, corrected drawings are required in rep		- ''.		
12)	The oath or declaration is objected to by the Ex	aminer.			
Priority (	under 35 U.S.C. §§ 119 and 120				
-	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.	C. § 119(a)-(d) or (f).		
,	☐ All b)☐ Some * c)☐ None of:				
,.	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents have been received in Application No				
	Copies of the certified copies of the prior application from the International Bu	rity documents have be	en received in this National Stage		
* 5	See the attached detailed Office action for a list				
14) 🗌 <i>F</i>	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.	C. § 119(e) (to a provisional application).		
	<ul> <li>The translation of the foreign language pro Acknowledgment is made of a claim for domesting</li> </ul>	• •			
Attachmen	t(s)				
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		

Application/Control Number: 09/882,530 Page 2

Art Unit: 1623

### **Detailed Action**

#### Election/Restrictions

1. Applicant's election without traverse of Invention I (claims 1-23) in Paper No. 8 dated October 21, 2002 is acknowledged.

2. Claims 24-25 are withdrawn from further consideration pursuant to 37 CFR

1.142(b) as being drawn to a nonelected invention, there being no allowable generic or

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

linking claim. Election was made without traverse in Paper No. 8.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "at least one vent comprises four vents" renders the claim indefinite, as it is unclear as to the number of vents on the filter column.

### Claim Objections

5. Claims 6-11, 14, 17, 21, and 23 are objected to because of the following informalities: depend from rejected claim. Appropriate correction is required.

Application/Control Number: 09/882,530 Page 3

Art Unit: 1623

# Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

9. Claims 1-5, 12-13, 15-16, 18-20, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Polak U.S. Patent 3,917,458 (Polak) and Padhye et al. U.S. Patent 5,808,041 (Padhye).

Claims 1-5, 12-13, 15-16, 18-20, and 22 are drawn to a filter column comprising: a body having a passageway extending therethrough, said body comprising at least a first body portion, a second body portion, and a third body portion, where an outer diameter of said first body portion is greater that an outer diameter of said second body portion, and where said outer diameter of said second body portion is greater than an outer diameter of said third body portion; a filter located within said passageway, said filter adapted to isolate nucleic acids from said liquid sample; and a plurality of bearing surfaces on an outer surface of said body, at least one of said bearing surfaces being adapted to seat on at least one of the collection tubes, said plurality of bearing surfaces including at least a first bearing surface located between said first and second body portions, and a second bearing surface located between said second and third body portions.

Polak teaches a gas filtration system employing a column as shown in Fig. 1. The system comprises a column possessing at least three body portions wherein the body of the first portion (J) is greater than the diameter of the second portion (H) and the body of the second portion (H) is greater than the diameter of the third portion. The system also has a plurality of bearing surfaces.

Polak differs from the instantly claimed invention in that Polak does not teach the instantly claimed column dimensions nor does Polak teach the filter as being adapted

for isolating nucleic acids. However, these deficiencies would have been obvious to one of ordinary skill in the art in light of the teachings of Padhye.

Padhye teaches a mixture of silica gel and glass particles in combination with an aqueous solution of chaotropic salts to isolate DNA or RNA (column 3, lines 19-26). Padhye further teaches that if the silica materials are in a chromatography column, a suitable volume of a solution can be passed through the material in the column to substantially completely remove the chaotroic salts and other contaminants of concern [teaches use of filter material with columns].

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Polak and Padhye to obtain the instantly claimed invention. The column dimensions are seen to one of experimental design choice and as such are within the purview of the skilled artisan. It would have also been obvious to use the filter media taught by Padhye since Padhye teaches its suitability for isolating nucleic acids.

#### Conclusion

Claims 1-25 are pending. Claims 24-25 are withdrawn from further consideration 10. as being drawn to a nonelected invention. Claims 6-11, 14, 17, 21, and 23 are objected to. Claims 1-5, 12-13, 15-16, 18-20, and 22 are rejected. No claims are allowed.

Art Unit: 1623

#### Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick T. Lewis whose telephone number is 703-305-4043. The examiner can normally be reached on M-F 10:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 703-308-4624. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

0196.

Patrick T. Lewis, PhD Examiner
Art Unit 1623

ptl December 30, 2002 dames O. Wilson

Supervisory Patent Examiner Technology Center 1600

Page 6